RAW SEQUENCE LISTING DATE: 05/27/2001
PATENT APPLICATION: **US/09/847,208** TIME: 16:48:07

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\05272001\I847208.raw**

P.5

<110> APPLICANT: Saxon, Andrew
Zhang, Ke
Zhu, Daocheng
<120> TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF IgE-MEDIATED ALLERGIC DISEASES
<130> FILE REFERENCE: UC67.002A
C--> **<140> CURRENT APPLICATION NUMBER: US/09/847,208**
C--> **<141> CURRENT FILING DATE: 2001-05-01**
<160> NUMBER OF SEQ ID NOS: 177
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 696
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1

```
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gggggaccgt cagtcttcct cttcccccca aaacccaagg acaccctcat gatctcccgg 120
acccctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc 180
aactggtacg tggacggcgt ggaggtgcat aatgttaaga caaagccgcg ggaggagcag 240
tacaacagca cgtaccgtgt ggtcagcgtc ctcaccgtcc tgcaccagaa ctggatgaat 300
ggaaaggagt acaagtgcaa ggtctccaac aaagccctcc cagccccat cgagaaaacc 360
atctccaaag ccaaagtgca gccccgagaa ccacaggtgt acaccctgcc cccatcccgg 420
gatgagctga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc 480
gacatcgccg tggagtggga gagcaatggg cagccggaga acaactacaa gaccacgcct 540
cccgtgctgg actccgtcgg ctccttcttc ctctacagca agctcaccgt ggacaagagc 600
aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 660
taccagcaga ggagcctctc cctgtctccg ggtaaa                          696
```

<210> SEQ ID NO: 2
<211> LENGTH: 330
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 2

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1               5                  10                  15
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20                  25                  30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95
Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110
Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
```

RAW SEQUENCE LISTING DATE: 05/27/2001
PATENT APPLICATION: US/09/847,208 TIME: 16:48:07

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05272001\I847208.raw

```
56          115                 120                 125
57 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
58      130                 135                 140
59 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
60 145                 150                 155                 160
61 Tyr Val Asp Gly Val Glu Val His Asn Val Lys Thr Lys Pro Arg Glu
62                 165                 170                 175
63 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
64             180                 185                 190
65 His Gln Asn Trp Met Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
66          195                 200                 205
67 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Val
68      210                 215                 220
69 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
70 225                 230                 235                 240
71 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
72                 245                 250                 255
73 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
74             260                 265                 270
75 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Val Gly Ser Phe Phe
76          275                 280                 285
77 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
78      290                 295                 300
79 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Gln
80 305                 310                 315                 320
81 Gln Arg Ser Leu Ser Leu Ser Pro Gly Lys
82                 325                 330
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 232
87 <212> TYPE: PRT
88 <213> ORGANISM: Homo sapiens
90 <400> SEQUENCE: 3
91 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
92  1               5                  10                  15
93 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
94             20                  25                  30
95 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
96          35                  40                  45
97 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
98      50                  55                  60
99 Asp Gly Val Glu Val His Asn Val Lys Thr Lys Pro Arg Glu Glu Gln
100 65                  70                  75                  80
101 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
102                 85                  90                  95
103 Asn Trp Met Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
104             100                 105                 110
105 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Val Gln Pro
106         115                 120                 125
107 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
```

RAW SEQUENCE LISTING DATE: 05/27/2001
PATENT APPLICATION: US/09/847,208 TIME: 16:48:07

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05272001\I847208.raw

```
108     130                 135                 140
109 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
110 145                 150                 155                 160
111 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
112                 165                 170                 175
113 Lys Thr Thr Pro Pro Val Leu Asp Ser Val Gly Ser Phe Phe Leu Tyr
114             180                 185                 190
115 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
116         195                 200                 205
117 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Gln Gln Arg
118     210                 215                 220
119 Ser Leu Ser Leu Ser Pro Gly Lys
120 225                 230
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 1445
125 <212> TYPE: DNA
126 <213> ORGANISM: Homo sapiens
128 <400> SEQUENCE: 4
129 tccacacaga gcccatccgt cttccccttg acccgctgct gcaaaaacat tccctccaat 60
130 gccacctccg tgactctggg ctgcctggcc acgggctact tcccggagcc ggtgatggtg 120
131 acctgggaca caggctccct caacgggaca actatgacct taccagccac caccctcacg 180
132 ctctctggtc actatgccac catcagcttg ctgaccgtct cgggtgcgtg ggccaagcag 240
133 atgttcacct gccgtgtggc acacactcca tcgtccacag actgggtcga caacaaaacc 300
134 ttcagcgtct gctccaggga cttcaccccg cccaccgtga agatcttaca gtcgtcctgc 360
135 gacggcggcg ggcacttccc cccgaccatc cagctcctgt gcctcgtctc tgggtacacc 420
136 ccagggacta tcaacatcac ctggctggag gacgggcagg tcatggacgt ggacttgtcc 480
137 accgcctcta ccacgcagga gggtgagctg gcctccacac aaagcgagct caccctcagc 540
138 cagaagcact ggctgtcaga ccgcacctac acctgccagg tcacctatca aggtcacacc 600
139 tttgaggaca gcaccaagaa gtgtgcagat tccaacccga gaggggtgag cgcctaccta 660
140 agccggccca gcccgttcga cctgttcatc cgcaagtcgc ccacgatcac ctgtctggtg 720
141 gtggacctgg cacccagcaa ggggaccgtg aacctgacct ggtcccgggc cagtgggaag 780
142 cctgtgaacc actccaccag aaaggaggag aagcagcgca atggcacgtt aaccgtcacg 840
143 tccaccctgc cggtgggcac ccgagactgg atcgaggggg agacctacca gtgcagggtg 900
144 acccaccccc acctgcccag ggccctcatg cggtccacga ccaagaccag cggcccgcgt 960
145 gctgccccgg aagtctatgc gtttgcgacg ccggagtggc cggggagccg ggacaagcgc 1020
146 accctcgcct gcctgatcca gaacttcatg cctgaggaca tctcggtgca gtggctgcac 1080
147 aacgaggtgc agctcccgga cgcccggcac agcacgacgc agccccgcaa gaccaagggc 1140
148 tccggcttct tcgtcttcag ccgcctggag gtgaccaggg ccgaatggga gcagaaagat 1200
149 gagttcatct gccgtgcagt ccatgaggca gcgagcccct cacagaccgt ccagcgagcg 1260
150 gtgtctgtaa atcccggtaa atgacgtact cctgcctccc tccctcccag ggctccatcc 1320
151 agctgtgcag tggggaggac tggccagacc ttctgtccac tgttgcaatg accccaggaa 1380
152 gctaccccca ataaactgtg cctgctcaga gccccagtac acccattctt gggagcgggc 1440
153 agggc                                                          1445
155 <210> SEQ ID NO: 5
156 <211> LENGTH: 427
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 5
161 Ser Thr Gln Ser Pro Ser Val Phe Pro Leu Thr Arg Cys Cys Lys Asn
```

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PATENT APPLICATION: US/09/847,208 TIME: 16:48:07

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05272001\I847208.raw

```
162  1               5                  10                  15
163 Ile Pro Ser Asn Ala Thr Ser Val Thr Leu Gly Cys Leu Ala Thr Gly
164             20                  25                  30
165 Tyr Phe Pro Glu Pro Val Met Val Thr Trp Asp Thr Gly Ser Leu Asn
166         35                  40                  45
167 Gly Thr Thr Met Thr Leu Pro Ala Thr Thr Leu Thr Leu Ser Gly His
168     50                  55                  60
169 Tyr Ala Thr Ile Ser Leu Leu Thr Val Ser Gly Ala Trp Ala Lys Gln
170 65                  70                  75                  80
171 Met Phe Thr Cys Arg Val Ala His Thr Pro Ser Ser Thr Asp Trp Val
172                 85                  90                  95
173 Asp Asn Lys Thr Phe Ser Val Cys Ser Arg Asp Phe Thr Pro Pro Thr
174             100                 105                 110
175 Val Lys Ile Leu Gln Ser Ser Cys Asp Gly Gly Gly His Phe Pro Pro
176         115                 120                 125
177 Thr Ile Gln Leu Leu Cys Leu Val Ser Gly Tyr Thr Pro Gly Thr Ile
178     130                 135                 140
179 Asn Ile Thr Trp Leu Glu Asp Gly Gln Val Met Asp Val Asp Leu Ser
180 145                 150                 155                 160
181 Thr Ala Ser Thr Thr Gln Glu Gly Glu Leu Ala Ser Thr Gln Ser Glu
182                 165                 170                 175
183 Leu Thr Leu Ser Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys
184             180                 185                 190
185 Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys
186         195                 200                 205
187 Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser
188     210                 215                 220
189 Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu Val
190 225                 230                 235                 240
191 Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg
192                 245                 250                 255
193 Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys Gln
194             260                 265                 270
195 Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val Gly Thr Arg
196         275                 280                 285
197 Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr His Pro His
198     290                 295                 300
199 Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser Gly Pro Arg
200 305                 310                 315                 320
201 Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp Pro Gly Ser
202                 325                 330                 335
203 Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe Met Pro Glu
204             340                 345                 350
205 Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu Pro Asp Ala
206         355                 360                 365
207 Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser Gly Phe Phe
208     370                 375                 380
209 Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu Gln Lys Asp
210 385                 390                 395                 400
```

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PATENT APPLICATION: US/09/847,208 TIME: 16:48:07

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05272001\I847208.raw

```
211 Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro Ser Gln Thr
212                 405                 410                 415
213 Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
214             420                 425
217 <210> SEQ ID NO: 6
218 <211> LENGTH: 320
219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
222 <400> SEQUENCE: 6
223 Phe Thr Pro Pro Thr Val Lys Ile Leu Gln Ser Ser Cys Asp Gly Gly
224  1               5                  10                  15
225 Gly His Phe Pro Pro Thr Ile Gln Leu Leu Cys Leu Val Ser Gly Tyr
226             20                  25                  30
227 Thr Pro Gly Thr Ile Asn Ile Thr Trp Leu Glu Asp Gly Gln Val Met
228         35                  40                  45
229 Asp Val Asp Leu Ser Thr Ala Ser Thr Thr Gln Glu Gly Glu Leu Ala
230     50                  55                  60
231 Ser Thr Gln Ser Glu Leu Thr Leu Ser Gln Lys His Trp Leu Ser Asp
232 65                  70                  75                  80
233 Arg Thr Tyr Thr Cys Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp
234                 85                  90                  95
235 Ser Thr Lys Lys Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr
236             100                 105                 110
237 Leu Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr
238         115                 120                 125
239 Ile Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn
240     130                 135                 140
241 Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg
242 145                 150                 155                 160
243 Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu
244                 165                 170                 175
245 Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg
246             180                 185                 190
247 Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys
248         195                 200                 205
249 Thr Ser Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro
250     210                 215                 220
251 Glu Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln
252 225                 230                 235                 240
253 Asn Phe Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val
254                 245                 250                 255
255 Gln Leu Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys
256             260                 265                 270
257 Gly Ser Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu
258         275                 280                 285
259 Trp Glu Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala
260     290                 295                 300
261 Ser Pro Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
262 305                 310                 315                 320
```

Please Note:
Use f n and/ r Xaa hav been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequenc which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 05/27/2001
PATENT APPLICATION: **US/09/847,208** TIME: 16:48:08

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\05272001\I847208.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:3129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:3466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93
L:3468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93
L:3483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:4518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126
L:6226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:6228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:6243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177
L:6245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177